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### [1. AF141-088: Lowest Lifecycle Cost \(LLC\) Expendable Launch Vehicles](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Identify and validate high payoff LLC propulsion technologies that are applicable to space launch and large ballistic missile vehicle applications. DESCRIPTION: Current expendable launch vehicles are designed using an optimum performance methodology. However, there have been numerous studies and technology demonstrations that suggest designing to minimum cost may have life cycle ...

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### [2. AF141-089: Electric Propulsion for Orbit Transfer](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop innovative high-power, long lifetime electric propulsion thrusters with wide throttle range for orbit transfer of DoD space assets. DESCRIPTION: Electric propulsion (EP) has the capability to greatly enhance the in-space maneuverability and payload capacity of spacecraft compared to liquid chemical propulsion. However, current electric propulsion devices do not provide e ...

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### [3. AF141-091: Physics-based modeling of solid rocket motor propellant](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Develop innovative physics-based models facilitating the accurate prediction of solid rocket propellant behavior with varying environmental boundary conditions. **DESCRIPTION:** With the need to sustain the existing Air Force Solid Rocket Motor (SRM) fleet for increasingly long times, accurate prediction of SRM capabilities becomes crucial. The paradigm is to predict the behavior of ...

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#### **[4. AF141-092: Advanced Integrity and Safety Assurance for Software](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** To develop new analysis tools and techniques for safety verification and validation of software embedded in or controlling strategic systems. **DESCRIPTION:** Software controlling U.S. nuclear weapons must have the highest possible assurance of safety and integrity. The essence of nuclear safety certification is an intensive review, verification, and validation of developed software ...

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#### **[5. AF141-093: Development and Verification Tools/Processes for ASICs and FPGAs](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Innovative solutions for providing U.S. domestically-owned ASIC/FPGA testing processes/tools capabilities to certify against malicious code/electronics design that could cause unintended consequences from nuclear operational applications. **DESCRIPTION:** Programmable Logic Devices, such as FPGAs and ASICs, controlling U.S. nuclear weapons must have the highest possible assurance of ...

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#### **[6. AF141-094: Algorithm Based Error Estimation & Navigation Correction](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Develop and demonstrate an algorithm-based scheme that improves navigation accuracy and responsiveness of inertial-based navigation systems. **DESCRIPTION:** The U.S. Air Force would like to explore more accurate and more robust navigation capabilities for strategic systems. The strategic system is heavily dependent on the Inertial Measurement Unit (IMU) for strategic system navigation ...

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#### **[7. AF141-096: Radiation Hardened Cache Memory](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Develop a power efficient, high speed, radiation hardened memory device suitable for long term space missions by using carbon nanotubes (CNT) or other innovative materials and processes, (e.g. graphene), processes (3-D), & architectures (memristive). **DESCRIPTION:** In order to meet projected growth in broadband military satellite communications, future generations of payloads will ...

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## **[8. AF141-097: Next Generation Rad Hard Reduced Instruction Set Computer](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Develop a radiation-hardened Advanced Reduced Instruction Set Computer suitable for use in long-term space missions. **DESCRIPTION:** As satellite payload processing becomes more broadly distributed across subsystems, there will likely be an increased need for a new generation of smaller (relative to general purpose processors), more power efficient, radiation-hardened microprocesso ...

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## **[9. AF141-099: Power Aware GPS User Equipment](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Specific to a ground-based military GPS receiver, develop a power management strategy which is implemented with an intelligent embedded software monitor/control application to balance power consumption against receiver performance. **DESCRIPTION:** Modernized military Global Positioning System (GPS) receivers continue to improve in capability, but the demand for increased battery li ...

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## **[10. AF141-100: Secure Time delivery Military GPS receivers in challenged RF environments using existing wireless infrastructure](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

**OBJECTIVE:** Develop an accurate and secure GPS time-aiding service that considers the time uncertainty from universal time (UTC) of existing commercial and tactical wireless infrastructure. **DESCRIPTION:** There are several methods to obtain time through commercial and tactical communication infrastructures; however, the level of trust and accuracy of these mechanisms limit their usefulness f ...

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